

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A battery system, comprising:
a casing configured to receive one or more batteries and to be used with received within
an electronic device; and
a battery comprising
a can having a longitudinal axis, a length that is parallel to the longitudinal axis,
and a cross section relative to the longitudinal axis that is rectangular for substantially the
entire length of the can, the can having a closed end and an open end,
a cathode in the can,
an anode in the can,
a separator between the cathode and the anode, and
a seal assembly attached to the open end of the can,
wherein the seal assembly comprises a seal and a current collector attached to the
seal.
2. (Previously presented) The battery system of claim 1, wherein the can comprises
an air access opening.
3. (Previously presented) The battery system of claim 1, wherein the cathode
comprises manganese oxide.
4. (Previously presented) The battery system of claim 1, wherein the cathode has a
rectangular cross section.

5. (Previously presented) The battery system of claim 1, wherein the anode comprises zinc.

6. (Canceled)

7. (Previously presented) The battery system of claim 1, wherein the battery is a metal-air battery.

8. (Previously presented) A battery, comprising:

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is rectangular for substantially the entire length of the can, the can having a closed end and an open end;

a cathode in the can;

a conductive hot melt material between the cathode and the can;

an anode in the can;

a separator between the cathode and the anode; and

a seal assembly attached to the open end of the can,

wherein the seal assembly comprises a seal and a current collector attached to the seal.

9. (Previously presented) A battery, comprising:

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is rectangular for substantially the entire length of the can, the can having a closed end and an open end;

a cathode in the can;

an anode in the can;

a separator between the cathode and the anode;

a seal assembly attached to the open end of the can; and

a non-conductive melt between the cathode and the seal assembly.

10. (Original) The battery of claim 1, further comprising a barrier layer between the cathode and the can.

11. (Original) The battery of claim 10, wherein the barrier layer comprises polytetrafluoroethylene.

12. (Original) The battery of claim 1, wherein the cathode and the can define an air plenum therebetween.

13. (Original) The battery of claim 1, wherein the can has a square cross section.

14. (Canceled)

15. (Previously presented) A method of making a metal-air battery, the method comprising:

placing a cathode tube in a can having a longitudinal axis, a length that is parallel to the longitudinal axis, a cross section relative to the longitudinal axis that is rectangular for substantially the entire length of the can, and an air access opening, the can having a closed end and an open end;

placing an anode in the can;

placing a seal assembly across the open end of the can;

sealing a portion of the can over the seal assembly; and

placing a conductive melt in the can.

16. (Canceled)

17. (Canceled)

18. (Previously presented) A method of making a metal-air battery, the method comprising:

placing a cathode tube in a can having a longitudinal axis, a length that is parallel to the longitudinal axis, a cross section relative to the longitudinal axis that is rectangular for substantially the entire length of the can, and an air access opening, the can having a closed end and an open end;

placing an anode in the can;

placing a seal assembly across the open end of the can;

sealing a portion of the can over the seal assembly; and

placing a non-conductive melt between the cathode and the seal assembly.

19. (Canceled)

20. (Canceled)

21. (Previously presented) A battery, comprising:
a can having a triangular cross section, the can having a closed end and an open end;
a cathode in the can;
an anode in the can;
a separator between the cathode and the anode; and
a seal assembly attached to the open end of the can,
wherein the seal assembly comprises a seal and a current collector attached to the seal.

22. (Original) The battery of claim 21, wherein the can comprises an air access opening.

23. (Original) The battery of claim 21, wherein the cathode comprises manganese oxide.

24. (Original) The battery of claim 21, wherein the cathode has a triangular cross section.

25. (Original) The battery of claim 21, wherein the battery is a metal-air battery.

26. (Previously Presented) A method of making a metal-air battery, the method comprising:

placing a cathode tube in a can having a triangular cross section and an air access opening;

placing an anode in the can;

placing a seal assembly comprising a seal and a current collector attached to the seal in the can; and

sealing a portion of the can over the seal assembly.

27. (Currently Amended) A battery system, comprising:

a casing configured to receive one or more batteries and to be used with received within an electronic device; and

a battery comprising

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is polygonal for substantially the entire length of the can, the can having a closed end and an open end,

a cathode in the can, the cathode defining a cavity,

an anode in the cavity, and

a separator between the cathode and the anode.

28. (Previously presented) The battery system of claim 27, wherein the can has a rectangular cross section.

29. (Previously presented) The battery system of claim 27, wherein the can has a square cross section.

30. (Previously presented) A battery, comprising:

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is triangular for substantially the entire length of the can, the can having a closed end and an open end,

a cathode in the can, the cathode defining a cavity,
an anode in the cavity,
a seal assembly attached to the open end of the can, and
a separator between the cathode and the anode.

31. (Previously presented) The battery system of claim 27, wherein the can has a wall between the closed end and the open end, the wall having an air access opening.

32. (Previously presented) The battery system of claim 27, wherein the can is electrically conductive.

33. (Currently Amended) A battery system, comprising:
a casing configured to receive one or more batteries and to be ~~used with~~ received within an electronic device; and

a battery comprising

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is polygonal for substantially the entire length of the can, the can having a closed end, an open end, and a wall extending between the ends, the wall having an air access opening,

a cathode in the can,
an anode in the can, and
a separator between the cathode and the anode.

34. (Previously presented) The battery system of claim 33, wherein the can has a rectangular cross section.

35. (Previously presented) The battery system of claim 33, wherein the can has a square cross section.

36. (Previously Presented) A battery, comprising:

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is triangular for substantially the entire length of the can, the can having a closed end, an open end, and a wall extending between the ends, the wall having an air access opening,

a cathode in the can,

an anode in the can,

a separator between the cathode and the anode, and

a seal assembly attached to the open end of the can, the seal assembly comprising a seal and a current collector attached to the seal.

37. (Currently Amended) A battery system, comprising:

a casing configured to receive one or more batteries and to be used with received within an electronic device; and

a battery comprising

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is polygonal for substantially the entire length of the can, the can having a closed end, an open end, and two walls extending between the ends, the distance between the ends being greater than the distance between the walls,

a cathode in the can,

an anode in the can, and

a separator between the cathode and the anode.

38. (Previously presented) The battery system of claim 37, wherein at least one wall has an air access opening.

39. (Previously presented) The battery system of claim 37, wherein the cathode defines a cavity, and the anode is in the cavity.

40. (Previously presented) The battery system of claim 37, wherein the can is electrically conductive.

41. (Previously presented) The battery system of claim 37, wherein the can has a rectangular cross section.

42. (Previously presented) The battery system of claim 37, wherein the can has a square cross section.

43. (Previously Presented) A battery, comprising:

a can having a longitudinal axis, a length that is parallel to the longitudinal axis, and a cross section relative to the longitudinal axis that is triangular for substantially the entire length of the can, the can having a closed end, an open end, and two walls extending between the ends, the distance between the ends being greater than the distance between the walls;

a cathode in the can;

an anode in the can;

a separator between the cathode and the anode, and

a seal assembly attached to the open end of the can, the seal assembly comprising a seal and a current collector attached to the seal.

44. (Cancelled)